

Message Text

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PAGE 01 MOSCOW 05378 220853Z
ACTION OES-07

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UNCLAS MOSCOW 05378

DEPT FOR MORRIS, OES/APT/SEP

E.O. 11652: N/A
TAGS: TGEN, UR, US
SUBJECT: US-USSR S&T AGREEMENT: ELECTROMETALLURGY - SOLID-
STATE JOINING (01.0306)

1. EMBASSY RECEIVED ON MARCH 21 FROM SCST A LETTER FROM
PROFESSORS GUROV AND KARTASHKIN FOR TRANSMISSION TO
DR. J. I. GOLDSTEIN OF LEHIGH UNIVERSITY. LETTER BEING
POUCHED UNDER REGISTRY 1911710 VIA OES/APT/SEP. INFORMAL
SCIENCE OFFICE TRANSLATION FOLLOWS.

2. "DEAR PROFESSOR GOLDSTEIN: THANK YOU FOR THE LETTER
AND REPRINTS OF YOUR WORK. WE ARE SENDING YOU OUR BEST
WISHES FOR THE NEW YEAR AND HOPE FOR EVEN MORE
FRUITFUL CONTACT. WE HAVE LEARNED WITH PLEASURE THAT IN
THE FUTURE WE SHALL BE ABLE TO DISCUSS SCIENTIFIC
PROBLEMS WITH YOUR COLLEAGUE DR. SHARKEL.

FOR SOME TIME, WE HAVE BEEN WORKING ON THE COMPLETION OF
THE PREVIOUS YEARS' PROJECTS. THAT IS WHY OUR WORK ON
MULTI-COMPONENT DIFFUSION IS STILL IN THE DEVELOPMENT
STATE AND THUS, UNFORTUNATELY, WE CANNOT SEND YOU OUR PUB-
LISHED WORKS ON THIS THEME NOW.

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IN THE DEVELOPMENT OF THE THEORY WE ENCOUNTERED MANY
PROBLEMS WHICH REQUIRE SPECIAL DISCUSSION AS THEY HAVE NOT
BEEN YET EVALUATED. IN PARTICULAR, IT WOULD BE INTEREST-
ING TO DISCUSS THE CONSIDERATIONS WHICH GUIDED YOU IN
SELECTING THE DIFFUSION COURSE IN THE TWO-PHASE AREA ON
THE TIE LINE (PO KONODE). WE FULLY AGREE WITH YOU THAT AT
THIS STAGE OF RESEARCH, AND UNDER THESE CALCULATIONS, IT

IS NECESSARY TO ASSUME THAT THE COEFFICIENTS OF DIFFUSION
AND CONCENTRATION ARE INDEPENDENT.

WE HOPE TO CONDUCT A MORE DETAILED DISCUSSION OF ALL THESE
QUESTIONS AT A MEETING WITH DR. SHARKEL AND YOU IN JUNE
OR SEPTEMBER.

AS OUR WORK IS PUBLISHED WE SHALL SEND IT TO YOU.

WITH BEST WISHES. DR. K. GUROV, DR. B. KARTASHKIN. TOON

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